## What Is Claimed Is:

- 1. A heat conductive silicone rubber composite sheet comprising a laminated structure with an intermediate layer and a pair of outer layers laminated to both surfaces of said intermediate layer, wherein
- (A) said intermediate layer is a layer of a synthetic resin film that displays heat resistance and electrical insulation, and
- (B) said outer layers are silicone rubber layers formed by curing a composition comprising (a) an organopolysiloxane, (b) a curing agent, (c) a heat conductive filler, and (d) a silicon compound-based adhesion imparting agent with at least one functional group selected from the group consisting of epoxy groups, alkoxy groups, vinyl groups, and the group represented by the formula Si–H.
- 2. The heat conductive silicone rubber composite sheet according to claim 1, wherein the thickness of said synthetic resin film is within a range from 5 to 40 μm.
- 3. The heat conductive silicone rubber composite sheet according to claim 1, wherein said synthetic resin film is formed from an aromatic polyimide, a polyamide, a polyamideimide, a polyethylene naphthalate, a polytetrafluoroethylene (PTFE), or a copolymer of tetrafluoroethylene and a perfluoroalkylvinyl ether.
- 4. The heat conductive silicone rubber composite sheet according to claim 1, wherein said synthetic resin film has a melting point of 200°C or higher.
- 5. The heat conductive silicone rubber composite sheet according to claim 1, wherein the thickness of each of said outer layers is within a range from 30 to 800 μm.
- 6. The heat conductive silicone rubber composite sheet according to claim 1, wherein said organopolysiloxane of said component (a) is represented by an average composition formula R<sup>1</sup><sub>a</sub>SiO<sub>(4-a)/2</sub> (wherein, R<sup>1</sup> are each independently a substituted or unsubstituted monovalent hydrocarbon group of 1 to 10 carbon atoms, which are the same or different, and a is a positive number of 1.90 to 2.05).

- 7. The heat conductive silicone rubber composite sheet according to claim 1, wherein said organopolysiloxane of said component (a) has a backbone chain that comprises dimethylsiloxane units, or a backbone chain that comprises dimethylsiloxane units but a portion of the methyl groups are substituted with a vinyl group, a phenyl group, or a 3,3,3-trifluoropropyl group, and the molecular chain terminals of the backbone chain are blocked with a triorganosilyl group or a hydroxyl group.
- 8. The heat conductive silicone rubber composite sheet according to claim 1, wherein the degree of polymerization of said component (a) is within a range from 200 to 12,000.
- 9. The heat conductive silicone rubber composite sheet according to claim 1, wherein said curing agent of said component (b) comprises an organohydrogenpolysiloxane with an average of at least 2 hydrogen atoms bonded to silicon atoms within a single molecule, and a platinum catalyst, and said organopolysiloxane of said component (a) is an organopolysiloxane that contains at least 2 alkenyl groups bonded to silicon atoms within a single molecule.
- 10. The heat conductive silicone rubber composite sheet according to claim 9, wherein the quantity of said organohydrogenpolysiloxane is a quantity such that the quantity of hydrogen atoms bonded to silicon atoms within said component (b) is from 0.1 to 4.0 mols per 1 mol of alkenyl groups bonded to silicon atoms within said component (a).
- 11. The heat conductive silicone rubber composite sheet according to claim 9, wherein the quantity of said platinum catalyst is a quantity such that the quantity of the platinum metal within said component (b) relative to the quantity of said component (a) is within a range from 0.01 to 1,000 ppm (by weight).
- 12. The heat conductive silicone rubber composite sheet according to claim 1, wherein said curing agent of said component (b) is an organic peroxide.

- 13. The heat conductive silicone rubber composite sheet according to claim 12, wherein the quantity of said organic peroxide is within a range from 0.1 to 5 parts by weight per 100 parts by weight of said organopolysiloxane of said component (a).
- 14. The heat conductive silicone rubber composite sheet according to claim 1, wherein said heat conductive filler of said component (c) comprises an inorganic powder.
- 15. The heat conductive silicone rubber composite sheet according to claim 1, wherein the average particle diameter of said component (c) is no more than 50 μm.
- 16. The heat conductive silicone rubber composite sheet according to claim 1, wherein the quantity of said heat conductive filler of said component (c) is within a range from 100 to 1,800 parts by weight per 100 parts by weight of said organopolysiloxane of said component (a).
- 17. The heat conductive silicone rubber composite sheet according to claim 1, wherein said silicon compound-based adhesion imparting agent of said component (d) has at least 2 functional groups which are each selected from the group consisting of epoxy groups, alkoxy groups, vinyl groups, and the group represented by the formula Si-H.
- 18. The heat conductive silicone rubber composite sheet according to claim 1, wherein the quantity of said component (d) is within a range from 0.1 to 3.0 parts by weight per 100 parts by weight of said component (a).
- 19. The heat conductive silicone rubber composite sheet according to claim 1, wherein said component (d) comprises at least one compound shown below:

$$(CH_{3})_{3}SiO - \begin{pmatrix} H \\ | \\ SiO \\ | \\ CH_{3} / 2 \end{pmatrix} - \begin{pmatrix} CH_{3} \\ | \\ SiO \\ | \\ CH_{3} / 6 \end{pmatrix} - \begin{pmatrix} (CH_{2})_{3}OCH_{2}CH - CH_{2} \\ | \\ SiO \\ | \\ CH_{3} \end{pmatrix} - Si(CH_{3})_{3}$$

$$\begin{array}{c|c} (CH_2)_3Si(OCH_3)_3 \\ O & \\ C & \\ O \\ CH_2 = CHCH_2 \\ O \\ \end{array}$$

$$\begin{array}{c|c} (CH_2)_3Si(OCH_3)_3 \\ C & \\ CH_2 = CHCH_2 \\ O \\ \end{array}$$